Directional valves → Electrically operated

5/2-way valve, Series CD12

► Qn = 4100 l/min ► pipe connection ► compressed air connection output: G 1/2 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent, without detent ► single solenoid

00134157

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	See table below
Medium temperature min./max.	See table below
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Compressed air connection	according to ISO 228-1 with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Degree of protectionwith electrical connector/plug	See table below
Compatibility index	See table below
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Aluminum; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

Technical Remarks

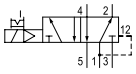
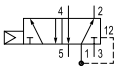
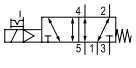
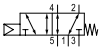
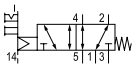
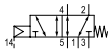
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil.ATEX ID: see ATEX coils catalog page.

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	6.8	5.7	4.3	3.3
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	6.2	4.4	3.5

Directional valves → Electrically operated

5/2-way valve, Series CD12

► Qn = 4100 l/min ► pipe connection ► compressed air connection output: G 1/2 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent, without detent ► single solenoid

	MO	Compressed air connection					Operating voltage			Holding power	Holding power	Part No.
		Input	Output	Exhaust	Pilot connection	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
		G 1/2	G 1/2	G 1/2	-	M5	24 V - -	- 110 V 230 V	- 110 V 230 V	- 4.3 4.4	- 3.3 3.5	**5725450220** **5725455270** **5725455280**
	-	G 1/2	G 1/2	G 1/2	-	- M5	-	-	-	-	-	**5725455202** **5725455302**
		G 1/2	G 1/2	G 1/2	-	M5	24 V - -	- 110 V 230 V	- 110 V 230 V	- 4.3 4.4	- 3.3 3.5	**5725470220** **5725475270** **5725475280**
	-	G 1/2	G 1/2	G 1/2	-	-	-	-	-	-	-	**5725475202** **R412008096**
		G 1/2	G 1/2	G 1/2	G 1/8	M5	24 V - -	- 110 V 230 V	- 110 V 230 V	- 4.3 4.4	- 3.3 3.5	**5725480220** 5725485270 **5725485280**
	-	G 1/2	G 1/2	G 1/2	G 1/8	-	-	-	-	-	-	5725485202

Part No.	Switch-on power	Switch-on power	Flow rate value	Working pressure min./max.	Control pressure min./max.	Ambient temperature min./max.	Medium temperature min./max.	Switch-on time	Switch-off time
	AC 50 Hz	AC 60 Hz	Qn						
			[l/min]	[bar]	[bar]	[°C]	[°C]	[ms]	[ms]
5725450220 **5725455270** **5725455280**	- 6.8 6.9	- 5.7 6.2	4100	2 / 10	2 / 10	-25°C / +50°C	-25°C / +50°C	37	97
5725455202 **5725455302**	-	-	4100	2 / 16 2 / 10	2 / 16 2 / 10	-25°C / +70°C -25°C / +50°C	-25°C / +70°C -25°C / +50°C	-	-
5725470220 **5725475270** **5725475280**	- 6.8 6.9	- 5.7 6.2	4100	2 / 10	2 / 10	-15°C / +50°C	-15°C / +50°C	37	97
5725475202 **R412008096**	-	-	4100	2 / 16 2 / 10	2 / 16 2 / 10	-15°C / +70°C -15°C / +50°C	-15°C / +70°C -15°C / +50°C	-	-
5725480220 5725485270 **5725485280**	- 6.8 6.9	- 5.7 6.2	4100	-0.95 / 16	2 / 10	-15°C / +50°C	-15°C / +50°C	37	97
5725485202	-	-	4100	-0.95 / 16	2 / 10	-15°C / +70°C	-15°C / +70°C	-	97

5/2-way valve, Series CD12

► Qn = 4100 l/min ► pipe connection ► compressed air connection output: G 1/2 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent, without detent ► single solenoid

Part No.	Compatibility index	Protection class	Weight	Note
			[kg]	
5725450220 **5725455270** **5725455280**	13, 14	IP 65	1	3); 7)
5725455202 **5725455302**	- -	-	0.85	1); 3); 5); 8) 3); 6); 8)
5725470220 **5725475270** **5725475280**	13, 14	IP 65	1	3); 7)
5725475202 **R412008096**	- 13, 14	-	0.85	1); 3); 5); 8) 2); 3); 6); 8)
5725480220 5725485270 **5725485280**	13, 14	IP 65	1	4); 7)
5725485202	-	-	1	4); 5); 8)

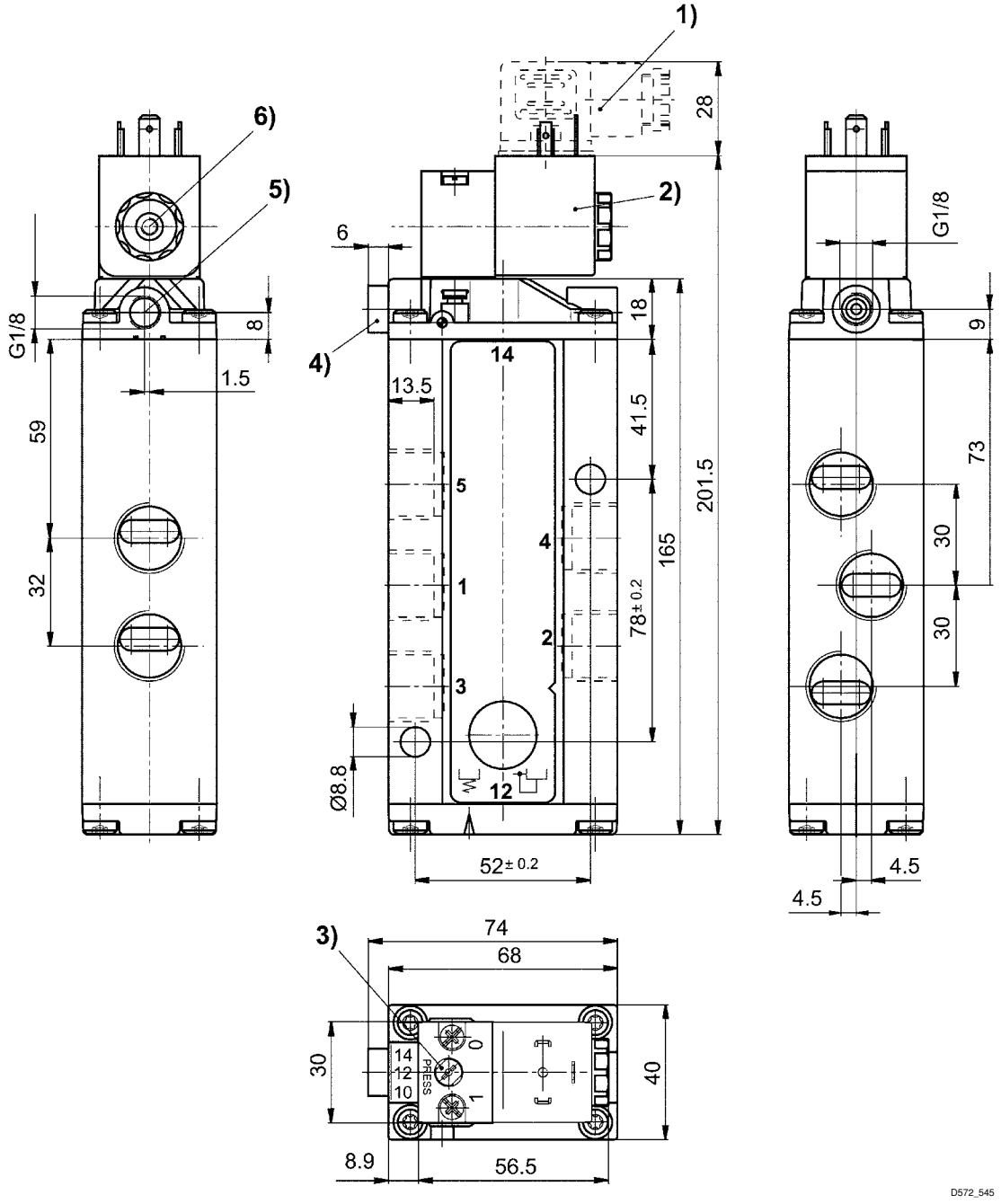
MO = Manual override
1) temperature range for ATEX application: -10°C to 60°C
2) Exhaust cap
3) Pilot: internal
4) Pilot: external
5) Basic valve without pilot valve
6) Basic valve without coil
7) Protected against polarity reversal
8) ATEX optional
Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

5/2-way valve, Series CD12

► Qn = 4100 l/min ► pipe connection ► compressed air connection output: G 1/2 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent, without detent ► single solenoid

Dimensions



1) electrical connector 2) each coil can be rotated by 90° 3) manual override
4) port X (only for externally piloted valves) 5) vent port of piston 6) pilot exhaust port, M5